Accept	<b>Work Order ID 59242</b> Friday, May 28, 2010 9:51:19 AM							 	···		Page 1
Start Date: 5/27/2010 Start Qty: 3.00 Cust Item ID: Required Date: 6/4/2010 Req'd Qty: 3.00 Customer:  Reference:  Approvals: Process Plan: Date: 155-25 Tooling: Date: SPC (Y/N): Date: SPC (Y/N): Date: Stop Work Center ID Description Run Hours  Sequence ID/ Description Run Hours  Draw Nbr Revision Nbr  D3690 Rev B	Revision ID:			ad loss	Accept						
QC: Date: SPC (Y/N): Date: Stop  Sequence ID/ Operation Set Up/ Tool ID Tool # Plan Accept Reject Reject Insp. Work Center ID Description Run Hours Code Qty Qty Number Stamp  Draw Nbr Revision Nbr  D3690 Rev B	Start Date: Required Date:	5/27/2010	- •				D:		Stop		
Work Center ID Description Run Hours Code Qty Qty Number Stamp    Draw Nbr   Revision Nbr     D3690   Rev B	Approvals:		in:								
Draw Nbr Revision Nbr D3690 Rev B		D	•		-	Tool ID	Tool #			•	
	Draw Nbr	Rev	ision Nbr					 	 		++
0.00	D3690	Rev	В					 	 		† <del>i.</del>

Thermoforming Machine

Thermoform

Thermoform

110

Set up machine frame and program as per Folio FTA 019

0.00

0.00

HAND FINISHING THERMOFORMING

HAND FINISHING THERMOFORMING

Memo

Memo

0.00

Thermoforming Machine

Cut Blanks to fit frame size 69.5" X 35.5"

Dart	Aerospace	Ltd
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W/O:			N	ORK ORDER CHANG	GES	<u></u>					
DATE	STEP	PR	OCEDURE CH	IANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No		PAR #:									
	R	esolution:							Date:		
NCR:			WORK ORI	DER NON-CONFORM	ANCE	(NCR)					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Sec Action Description Chief Eng	tion B	Sign & Date	Verifica Section	ion C	Approval Chief Eng	Approval QC Inspector	
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Friday, May 28, 2010 9:51:19 AM



Page 2

Item ID:

D3690-1

Accept



Setup Start

Stop

Stop



**Revision ID:** 

**Start Date:** 

Item Name: Glareshield

5/27/2010

Start Qty: 3.00

Required Date: 6/4/2010 **Req'd Qty: 3.00** 



**Cust Item ID:** 

**Customer:** 

Reference:

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

Tooling:

Date:

Date:

Run Start



Sequence ID/ **Work Center ID** 

115

HandThermo

Operation Description

Dry Material

Set Up/

0.00

SPC (Y/N):

**Run Hours** 

Tool ID

Tool # Plan Code

Reject Accept Qty

Qty

Reject Number Stamp

Insp.

Hand Finishing Thermoforming

Memo

0.00

Dry Sheet as per QSI022 POLYCARBONATE

Date:\_\_\_\_\_

120

Thermoform

THERMOFORMING MACHINE

Memo

0.00

0.00

Thermoforming Machine

Thermoform as per Dwg. D3690-1and Folio FTA 019 Dwg. Rev.

BB 10/06/01

DL 10/06/01

X3

130

QC2- Inspect parts off machine FAI/FAIB

0.00

QC

Memo

0.00

Quality Control

Visually inspect for proper formation of each part

Dart Aerosp	pace Ltd
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W/O:		WORK ORDER CHANGES							*		
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector		
Part No:		PAR #:									
	R	esolution:						Date: _			
NCR:		V	VORK ORD	ER NON-CONFORMA	ANCE (NCR	3)					
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section Description Chief Eng	on B , Sign & Date	Verifica Section		Approval Chief Eng	Approval QC Inspector		
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## Work Order ID 59242

Friday, May 28, 2010 9:51:19 AM



Page 3

Item ID:

D3690-1

Accept

Setup Start



**Revision ID:** 

Item Name:

Required Date: 6/4/2010

Glareshield

5/27/2010

Start Qty: 3.00

Req'd Qty: 3.00



Date:\_\_

**Cust Item ID: Customer:** 

Reference:

**Start Date:** 

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4 34	PP	10	т се ј	

Process Plan: \_\_\_\_\_ Date: \_\_\_\_

Tooling:

SPC (Y/N):

Set Up/

Date:

Date:

Run Start

Qty

Stop

Stop



Sequence ID/

Work Center ID

140

QC Quality Control Operation Description

QC8- Inspect parts - second check

Memo

**Run Hours** 0.00

0.00

**Tool ID** 

Tool # Plan Code

Accept Qty

Reject Reject

Number Stamp

Insp.

150

Thermoform

Thermoforming Machine

HAND FINISHING THERMOFORMING

Memo

0.00

0.00

Trim to Finished Dimensions as per dwg D3690 using DT9036 / DT9043

template

160

**Quality Control** 

QC2- Inspect parts off machine FAI/FAIB

0.00

Memo

0.00

Check dimensions to ensure conformity to drawing tolerances.

Dart Aerospace Ltd	Dar	t Aer	osp	ace	Ltd
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W/O:		The second secon	N	ORK ORDER CH	IANGES					
DATE	STEP	PRO	OCEDURE CH			Ву	Date	dty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Ca	tegory:	NCI	R: Yes I	lo DQA:		Date:	
	R	esolution:	Disposit	ion:	QA:	N/C Clo	sed:	ļ	Date: _	
NCR:			WORK ORI	DER NON-CONFO	DRMANCE	(NCR)				
DATE	STEP	Description of NC	Corrective Action Section			- Verificat			Approval	Approval
		Section A	Initial Chief Eng	Action Descri Chief Eng		Date	Section		Chief Eng	QC Inspector
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## Work Order ID 59242

Friday, May 28, 2010 9:51:19 AM



Page 4

Item ID:

D3690-1

Revision ID:

Item Name: Glareshield

Required Date: 6/4/2010

Start Date:

5/27/2010

Start Oty: 3.00 Req'd Oty: 3.00



Accept



Setup Start





Reference:

Approvals:

Process Plan:

Date:

Tooling: Date:

SPC (Y/N):

Date:

**Cust Item ID:** 

**Customer:** 

Run

Start

Stop



Sequence ID/ **Work Center ID** 

170

Quality Control

Operation Description

QC5- Inspect part completeness to step on W/O

Set Up/ **Run Hours** 

Tool ID

Date:

Tool # Plan Code

Accept **Qty** 

Reject Oty

Reject Number Stamp

Insp.

Memo

0.00

0.00

8 color /23

180

Packaging

**Packaging** 

Memo

190

Quality Control

QC21- Final Inspection - Work Order Release

Identify as per dwg & Stock Location CA

Memo

0.00

0.00

W 10:06 29

Dart Aerospace Ltd	Dá	art	Aer	os	pac	e Ltd	
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W/O:			W	ORK ORDER CHA	ANGES					- <del>-</del> -
DATE	STEP	PRO	OCEDURE CH	ANGE		Ву	Date	Qly	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No	•	PAR #:	Fault Cate	egory:	NCI	R: Yes	No <b>DQA</b> :	$\perp$	Date: _	
	Re	esolution:	Disposition	on:	QA:	N/C Cld	sed:		Date:	
NCR:			WORK ORD	ER NON-CONFO	RMANCE	(NCR	)			
DATE	STEP	Description of NC	Corrective Action Section B Initial Action Description			Sign & Verificat				Approval
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## "Picklist Print

Friday, May 28, 2010 9:51:24 AM

Work Order ID: 59242

Parent Item:

D3690-1

Parent Item Name:

Glareshield

Comments:

IPP Rev A New Issue 08/04/28 DL verified by:DD

IPP Rev:B 08-07-14 revB as per dwg DD verified by:ec IPP Rev:C 08-10-07 revC as per dwg DD verified by:EC

Add Step 115 Dry Material 10/04/21 DL

Ipp Rev. D

Start Date: 5/27/2010

Start Qty: 3.00

Required Date: 6/4/2010

Required Oty: 3.00

MLEXS.093-F6006-02

Purchased

No

sf

1.136.296

26.31

78.96948

GE PLASTICS LEXAN SHEET

Location

Loc Qty

1136.296

1136.296

Loc Code

Page 1

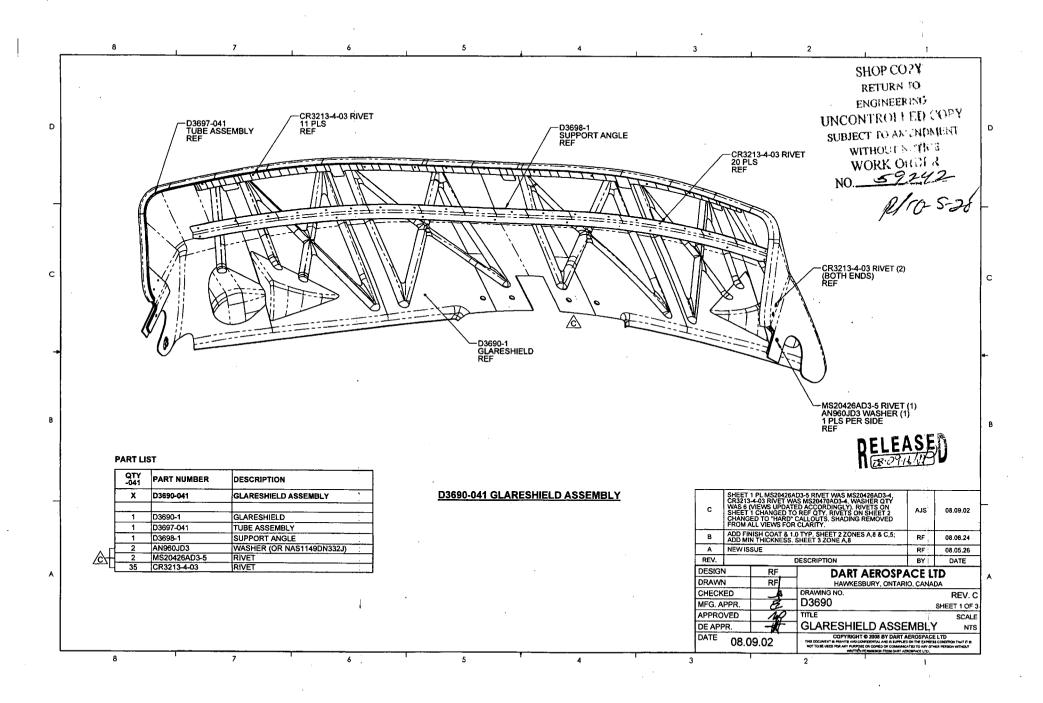
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<b>Dart Aeros</b>	pace Ltd
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NCR:				DER NON-CO						Date	· .
DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Act Action De	ion Section escription	n B	Sign & Date	Verifica Section		Approval Chief Eng	Approval QC Inspector
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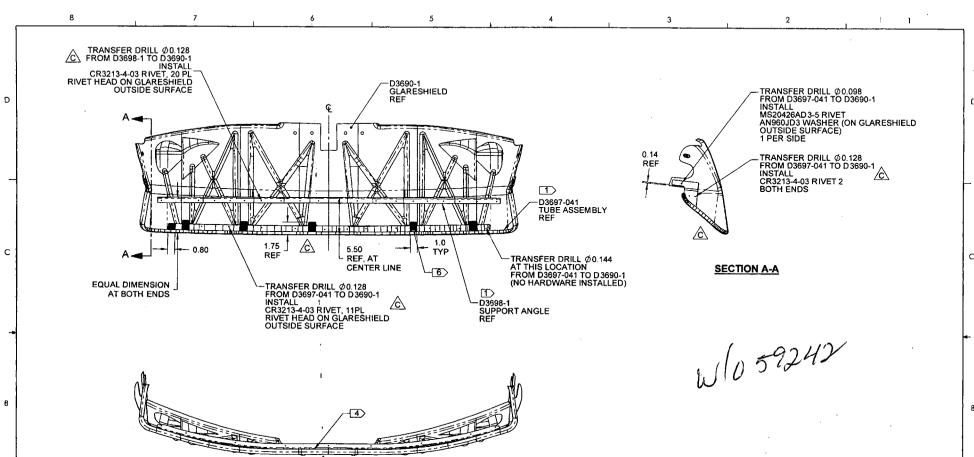
DART AEROSPA	ACE LTD	· · · · · · · · · · · · · · · · · · ·		Wo	rk Order:	59242
Description: Glares	hield		· ·	Pa	rt Number:	D3690-1
Description. Glares	ineid			<u> </u>	iit Number.	D3090-1
Inspection Dwg: D3	3690 <b>Rev</b> : B					Page 1 of 1
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	TH	IERMOFOR	MING SE	CTION	, · · · · · · · · · · · · · · · · · ·	
Description		•	Accept	Reject	Method of Inspection	Comments
Shape Definition						
Free of visual flaws	(bumps, cracks, voi	ds, etc.)	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
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Measured by:	Measured by:				Date:	10/06/01
•		TRIMMING	SECTIO	N		•
Drawing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
2.20	+/-0.030	2.22	-			
3.55	+/-0.030	3.62				
0.040	Min	.061				
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Measured by	y: R	1	· .		Date:	13/06/01
Audited by			,		Date:	10/06/01
Prototype Approva	1: N/A		  -	<u>.</u>	Date:	N/A
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W/O:				WC	ORK ORDER CHANGES	3					
DATE	STEP		PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approva QC Inspect	
Part No	):		PAR #:	Fault Cate	gory: 1	NCR: Yes	No DQA	•	Date:		
				Disposition: QA: N/C Closed: Date:							
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DATE	STEP		Description of NC		3	Verifica	ation	Ammuoval	Approva		
DATE	SIEP		Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Verification Approval Section C Chief Eng		QC Inspect	
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W/O:	WORK ORDER CHANGES									*	
DATE	STEP	PRO	PROCEDURE CHANGE				Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector	
Part No: PAR #:			Fault Cat	egory:	NCR: Y	NCR: Yes No DQA:			.: Date:		
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Corrective Action Section  Action Description  Chief Eng	Section B Voltion Sign & Date			Verification Section C	Approval Chief Eng	Approval QC Inspector	
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D3690-041 GLARESHIELD ASSEMBLY

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NOTES:
1) CENTER D3697-041 AND D3698-1 ON TO D3690-1
2) FINISH: PAINT D3690-041 ASSY FLAT BLACK USING BASF GLASURIT 22 LINE CODE SFA39.50 PER DART QSI 005 4.2
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) IDENTIFICATION: ETCH WITH DART P/N D3690-041 & B/N ON INSIDE OF PART

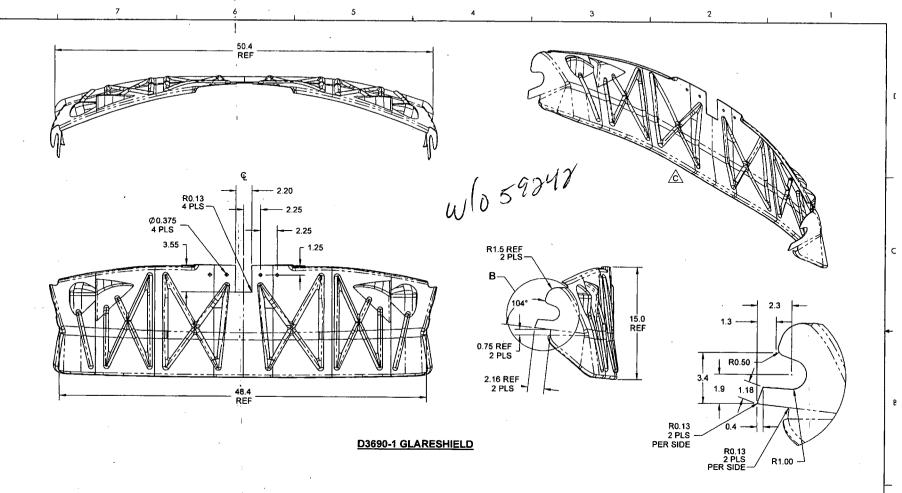
5) WEIGHT: 2.98 lbs
6) MASK HATCHED AREAS (6 PLS) ON INSIDE OF THE PART PRIOR TO PAINTING

DESIGN DART AEROSPACE LTD DRAWN HAWKESBURY, ONTARIO, CANADA CHECKED DRAWING NO. REV. C D3690 MFG. APPR Œ SHEET 2 OF 3 APPROVED TITLE SCALE **GLARESHIELD ASSEMBLY** DE APPR. COPYRIGHT © 2008 BY DART AEROSPACE LTD

T IS PREVATE AND CONFERNIAL AND IS AIRPH 60 ON THE DYPRESS CONDITION THAT IT IS
THE PREVATE AND CONFERNIAL AND IS COMMUNICATED TO ANY OTHER PERSON WITHOUT
THE PREVATE AND CONFERNIA DATE 08.09.02

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES									<del>-</del>
DATE	STEP	PRO	CEDURE CH	ANGE		В	,	Date	Qly	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No: PAR #:											
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DATE STEP		Description of NC Section A	Initial	Corrective Action Section B Initial Action Description			Sign & Verificati				Approval
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NOTES:
1) MATERIAL: F6006 SUEDE/POLISHED 701 BLACK FLAT LEXAN SHEET 0.093 THICK (REF DART SPEC MLEXS.093-F6006-02)
2) TOOLING: THERMOFORM PER MOLD DT9010 PER QSI 022 TRIM PER MOLD SCRIBE LINES EXCEPT WHERE NOTED
3) FINISH: NONE
4) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
5) UNITS: INCHES UNLESS OTHERWISE NOTED
6) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
7) IDENTIFICATION: NONE
8) WEIGHT: 2.5 ibs
9) MINIMUM THICKNESS AFTER FORMING IS 0.040

DETAILB SCALE 2X THIS VIEW FOR REFERENCE ONLY

DESIGN	ŖF	DART AEROSPACE LTD					
DRAWN	FF	HAWKESBURY, ONTARIO, CANADA					
CHECKED	la la	DRAWING NO. REV. C					
MFG. APPR.	RO	D3690 SHEET 3 OF 3					
APPROVED	11	TITLE SCALE					
DE APPR.		GLARESHIELD ASSEMBLY NTS					
DATE 08.09.02 COPYRIGHT 6 2008 BY DART AEROSPACE LTD THE SOUNDER OF THE PROPERTY OF THE SOUNDER							

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D	art	Aeı	osp	oace	<b>Ltd</b>

W/O:			V	WORK ORDER CHANGES							
DATE	STEP	PRO	PROCEDURE CHANGE By Date C							Approval QC Inspector	
Part No	:	PAR #:	Fault Ca	tegory:	NC	CR: Yes	No DQA:		Date:		
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DATE	STEP	Description of NC Section A	Initial Chief Eng	Section B			tion	Approval Chief Eng	Approval QC Inspector		
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